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|                | information report   | CD NO.                                      |               |                                       |
| COUNTRY        | Germany/USSR   | DATE DISTR.                                 | 2             | March 1950                            |
| SUBJECT        | T/O of German V-2 Rocket Launching<br>Unit; Components of FMS Trains   | NO. OF PAGE                                 |               |                                       |
| LACE<br>CQUIRE |  | NO. OF ENCL                                 | s. 1          | <b>(1 page) *</b><br>50X1-HUN         |
| ATE OF<br>NFO. |  | SUPPLEMENT<br>REPORT NO.                    |               |                                       |
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|                | is.  |   |               |                                       |
|                | ofter some necessary reorganization, the or<br>the V-2 division at the end of the war was<br>below. This order of battle was proved to<br>in action.   |   |               |                                       |
|                | Division on Onectal Assistmen  | t   |               |                                       |
|                | Forth Group South 1 South 1 South 2 South 2 South 2 South 1 So | h Group<br>-2 Regiment                      |               |                                       |
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| . 1.           | Readquarters with special breach for technic assigned to the tactical group  |   |               | · · · · · · · · · · · · · · · · · · · |
|                | Readquarters with special breach for technic assigned to the tactical group Signal battery lead varters battery Jurvey platoon   |   |               |                                       |
| J. a           | Readquarters with special breach for technic assigned to the tactical group Signal battery Leadquarters battery Survey platoon Attached: 1 engineer company 1 radio intercept company 1 military volice plotoon  | cal issues,                                 |               |                                       |
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|                | Teciment  Teadquarters with special breach for technic assigned to the tactical group  Mignal battery Leadquarters habbery  Survey platoon  Attached: 1 engineer company 1 radio intercept company 2 radio intercept company 3 radio intercept company 4 radio intercept company 5 radio intercept platoon 6 recommunication platoon 6 readquarters 6 recommunication platoon 7 recommunication platoon 8 security detachment, with 1 AT platoon and infantry platoon 8 engineer platoon (detailed from the engineer platoon (detailed from the company of regimental headquarters) 8 radio intercept platoon (detailed from the company of regimental headquarters) 8 radio intercept platoons (detailed from the company of regimental headquarters) 8 rattery - firing battery 8 firing platoons with refueling squads with the below listed science  CLASSIFICATION SECRET/COMPROI, - U.S. CLASSIFICATION SECRET/COMPROI, - U.S. CLASSIFICATION SECRET/COMPROI, - U.S. CLASSIFICATION SECRET/COMPROI, - U.S. CLASSIFICATION SECRET/COMPROIDED SECRET/COM | otor vehicle  ized) il armoredy  radio inte | of greent     | 50X1-HU                               |

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The rocket, having been fueled is discharged on battalion order by the crew in charge of fire direction (fire direction officer, power plant engineer, radio engineer) at 11-time.

## 4. Technical Battery

The organization and supply of this battery are standard. It is composed of the following special squads:

- a. Field dump personnel in charge of storing and maintaining of equipment (capacity: 30 rockets).
- b. Checking squad, exact checking of the supplied rockets.
- c. depair shop, repair of equipment (including ground installations) by means of field maintenance.
- d. "arhead fitting squad, fatting of the markead to the rocket nose by the Strabo type crane.
- 5. Fuel and Rockets (Supply) Barbery

Standard organization and supply: besides, according to its purpose:

3 A-stoff fueling squads ) l of each type per 3 B-stoff fueling squads ) firing platoon of the firing battery

Each platoon and squad has a sumping detail for pumping the fuel from the tank cars into the tank trucks. From the railhead, fuel is carried directly to the trains assembly area at the firing position. One "Vidal" truck detail to carry the rockets and spare parts from the railhead to the field depot.

- 6. The rockets are trucked on Peljer cars from the technical battery to the firing position by the car service squads of the firing battery. Circlet traffic has to be organized, so that, after discharge, the empty Peller car leaves the position without blocking the next rocket to be launched. After discharge, he empty Peller car moves to the compressor where the installed compressed air bottles are refilled (compressed air is required for pressing the valves on the test connections prior to fueling the rockets). From the compressor it goes to the technical battery.
- 7. Every position on fairly solid roads in forests and dense parks is suitable if the trees are high. There are no typical indications of a V-2 tiring emplacement unless it is revealed by deep-rutted ways. To avoid this, the engineer squad is employed for permanent road maintenance. The intense motor traffic would facilitate reconnaissance of the emplacement; so any tracking is done by darkness.

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8. Control beam squad and final-checking squad are not dealt with, because, by the end of the war, they were no longer recuired due to the introduction of the time switch device and efficient automatic directional controls.

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14. The FMSes were first made adjustable to Soviet railroad gauge which had not been originally planned. The following completion dates were set:

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FMS I - immediately FMS II - 1 January 1947.

15. An additional Soviet officer was detailed to each special car of FMS II. These officers were given any authority necessary for the produrement of special equipment, tools, etc. throughout the Soviet Cone. German buving agents had to procure component parts Composition: Each FMS consisted of 2 trains, requestioning special trains exclusively.

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#### D. FMS I

#### 16. 1st train section

- 5 sleeping (sitting)cars
- 1 dining car
- 1 medical car
- 1 office car furnished with radio and telephone central
- 1 picture car with motion picture and photographic sections
- I power station, Diesel engine for supplying the train with current, and check service
- 1 compressor car for compressed air supply and check service
- l repair shop car
- 3 laboratory cars for checking component parts and total outfit (final check in horizontal position)
- 1 car for motor maintenance shop
- 1 car for radio equipment of the rocket (Pessina)
- l headquarters and saloon car equipped with armored cabin and telescope for observation of take off and trajectory

Several empty flatcars to be loaded with passenger cars, trucks, and busses for operators and spectators

- 1 refrigerator car for kitchen provisions
- 1 water car (driking and kitchen water)
- 1 escort personnel car.

### 17. 2d train section

- 1 flatear for Meiler car
- l flatcar for Vidal car
- 1 flatear for propelling plant-carrying trucks and discharge platform
- 1 flatear for fire-directing tank
- 1 flatcar for generator trucks and T-agent heating equipment
- 1 flatcar for Strabo crane
- 1 flatear for 2 survey trucks
- 3 flatears for A-agent-carrying tank trucks with pumping trailers
- 3 flatears for B-agent-carrying tank trucks with pumping trailers
- l flatear for T-agent-carrying tank truck with pumping trailer
- l flatear for fire extinguisher with fire engine Several empty flatears for personnel carriers
- 3 A-agent-carrying railroad tank cars
- 3 B-agent-carrying railroad tank cars
- 1 T-agent-carrying railroad tank car

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| 2 | freight | cars | for | stan  | dard | and   | spare | parts | (rocket | accesso- |
|---|---------|------|-----|-------|------|-------|-------|-------|---------|----------|
|   | 3       | cies | and | Spare | nart | ner l |       | -     | ,       |          |

1 flatcar with side racks for ties and bridge equipment
1 flatcar with side racks for narrow-gauge field tracks and
lorries for fitting rockets (tail firing mechanism,
lorry for central section of rocket,

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head fitting, etc.)

1 flatear with side racks carrying 2 collabsible loading ramps

l freight car for gasoline and Diesel oil

9 group cars carrying rockets (3 groups - 6 rockets); combination of uncovered freight car and passenger car types

1 Meiler railroad car furnished with discharge platform for railroad operation

1 car for escort personnel.

#### E. FIIS II

## 18. 1st train section

In general the same as FMS I. A lavatory and bathing car had been added after the modical car. The FMS II contained two sets of kaboratory cars (3 laboratory cars per train section of a total of 6 cars). Checking could be done on a larger scale and the rate of discharges increased provided the rockets were ready for action.

19. 2d train section

The same as FMS I.

## F. General Data on Both FISes

- 20. Originally, the FIISes had been designed only for German railroad gauge. In late 1946 (?) they were re-equipped for adjustable wheel sets. The FIIS II had always been designed for use on German and Soviet railroad gauges. The motor vehicles, except those of technical design, were constructed at the FLEIN-BON MEN Clant 16. III. The factory did not provide commercial motor vehicles (passenger cars, trucks and busses) but the cars carrying them were supplied by the factory.
- 21. The train's electric light installations and power plant were designed for connection with an available local network, for current supply from the built-in power station, and for storage battery operation.
- 22. The heating installation was threefold: Steam-heating supplied from the engine; electric heating supplied from storage batteries (could be switched to a local network), and stove heating. The whole heating equipment was adjusted to an outside temperature down to -40°C.
- 23. It had first been planned to add freight cars to carry the adjustable wheel sets but this plan was given up. A rocket-carrying special train of 90 group cars (loading capacity of 60 rockets) had been devised. This train was made at a German mailroad car building plant, probably in GOTPA.

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- 24. The FMSes did not show any remarkable improvement as to technical design. The whole outfit has been taken over in the state of development reached by the Germans at the end of the war.
- Any equipment, especially the most sensitive instruments installed in the laboratory cars, operated, until acceptance, in an unobjectionable way. The places where these instruments and the machinery in the repair shop cars were to be fitted, were changed several times until suitable places had been located by driving and shaking tests. Experience in the use of the FTSes is not available.

C.

Some final remarks on the evacuation of the V-2 production to the SU and its trial there may be added:

- a. According to information, V-2 rockets are being produced in the Ural and tests and fire operation are done in the KALININ area. This regional distribution is in accordance with the German principles followed during the war. According to these principles, production is to be established where it can hardly be reached by enemy air force, but for firing operation, including the important air liquefying plant, such places are to be preferred as are close to the future employment area and are accessible by good traffic communications.
  - b. The reasons are evident: Liquefied air evaporates quickly, even when stored or shipped. If shipping distances are too great, it would be impossible to supply the quantities of liquid air required for operation. Under these circumstances, the A-agent-carrying tank cars would reach the employment area half, or even less, filled and the rockets could not be discharged as scheduled.

a. This report (ives another survey of organization and equipment of the former division on special assignment, which was organized for V-2 employment. This survey is to facilitate special conclusions on the Boviet improvement of the Boviet-owned FMS trains.

b. Production of FMS trains has been mentioned several times on the V-2 weapons plants located in the Bouthern Harz Mts.

Comment:

one FTS train was seen at the KA-LIMINGRAD V-weapons factory which is in the vicinity of "OSCO" and another train in the MOSCO"-KFIFKI experimental plant. The reports on these plents say that the train stationed in KALIMINGRAD until January 1948 left the plant several times, carrying two V-rockets, allegedly bound for LEMINGRAD.

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# CENTRAL INTULLIGENCE AGENCY C. The assumption voiced in Part C on further V-veapons plants cannot be confirmed. Only data on reconstruction of dismantled factory equipment are available. 50X1-HUM 50X1-HUM

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# CENTRAL INTELLIGENCE AGENCY 1 / Annex

```
Firing battery
       Firing platoons
I and II composed as III
       V-2 on firing platform
2
       Meiller car
3
       Propelling plant truck
4
       Current supply truck
5
       Prime mover for close limber
6
       Fire-control tank
7
       Survey squad
8
       Fire extinguishing squad
9
       Compressor-carrying truck
10
       Assembly position of gasoline convoy
11
       Battery command post
12
       Train and limbers of caintenance squad
В
       Technical battery
       Command post
2
       Train of maintenance platoon
3
       Maintenance platoon (repair shops, etc.) and
       checking platoon
Warhead fitting
5
       Field dump for about 50 V-2s
The V-2s are trucked from C2 on Vidal car
C
       Fuel and rockets (supply battery)
       Command post
       Railhead for fuels
2
3
       Railhead for V-2s
       Train of maintenance platoon
4
D
       Battalion head uarters
       Headquarters
2
       Signal communications with regiment
3)
       Trains
4)
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